

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit: 2817)
In re Application of:) **ELECTRONIC TUNABLE FILTERS**
YONGFEI ZHU, ET AL.) **WITH DIELECTRIC VARACTORS**
Serial No.: 09/734,969)
Filed: December 12, 2000) Attorney Docket No. 283014-00025

INFORMATION DISCLOSURE STATEMENT

February 22, 2001

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Pursuant to the provisions of 37 CFR Sections 1.56, 1.97 and 1.98, Applicants submit herewith copies of the prior art documents cited on the attached Form PTO/SB/08A for consideration during prosecution of the subject Application.

This Statement is filed solely for the purpose of complying with the pertinent rules of the Office and is not intended to be a substitute for an independent evaluation by the Examiner of the art cited or an independent search by the Examiner, and no representation of any nature is made or intended by the filing of this Statement.

In addition to the art cited on Form PTO/SB/08A, Applicants and/or their attorneys may have been exposed to or considered additional art relating to the general class of the subject matter of the invention. However, if in fact such exposure or consideration has occurred, to the best of their recall or judgment, none of such art is prior art which is more relevant than the art cited.

Respectfully submitted,

Robert P. Lenart

Robert P. Lenart
Registration No. 30,654
Eckert Seamans Cherin & Mellott, LLC
600 Grant Street, 44th Floor
Pittsburgh, PA 15219
(412) 566-1252
Attorney for Applicants

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known		
				Application Number	09/734,969	
				Filing Date	December 12, 2000	
				First Named Inventor	Yongfei Zhu	
				Group Art Unit	2817	
				Examiner Name	N/A	
Sheet	1	of	2	Attorney Docket Number		283014-00025

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A	4,431,977		Sokola et al.	02/14/1984	
	B	4,620,168		Delestre et al.	10/28/1986	
	C	5,173,835		Cornett et al.	12/22/1992	
	D	5,283,462		Stengel	02/01/1994	
	E	5,312,790		Sengupta et al.	05/17/1994	
	F	5,427,988		Sengupta et al.	06/27/1995	
	G	5,486,491		Sengupta et al.	01/23/1996	
	H	5,495,215		Newell et al.	02/27/1996	
	I	5,614,875		Jang et al.	03/25/1997	
	J	5,635,433		Sengupta	06/03/1997	
	K	5,635,434		Sengupta	06/03/1997	
	L	5,693,429		Sengupta et al.	12/02/1997	
	M	5,766,697		Sengupta et al.	06/16/1998	
	N	5,830,591		Sengupta et al.	11/03/1998	
	O	5,846,893		Sengupta et al.	12/08/1998	
	P	5,990,766		Zhang et al.	11/23/1999	

FOREIGN PATENT DOCUMENTS								
Examiner Initials ⁵	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ² (if known)				
	Q	WO	WO 98/20606		Superconducting Core Technologies, Inc.			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

SUBSTITUTE FOR FORM 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/734,969
				Filing Date	December 12, 2000
				First Named Inventor	Yongfei Zhu
				Group Art Unit	2817
				Examiner Name	N/A
Sheet	2	of	2	Attorney Docket Number	283014-00025

[illegible]

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Office ²	Number ⁴	Kind Code ³ (if known)				

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	:	
	:	
YONGFEI ZHU ET AL.	:	ELECTRONIC TUNABLE FILTERS
	:	WITH DIELECTRIC VARACTORS
Serial No.: 09/734,969	:	
	:	
Filed: December 12, 2000	:	Attorney Docket No. 283014-00025
	:	
Group Art Unit: 2817	:	

**SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

May 28, 2002

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Pursuant to the provisions of 37 CFR Sections 1.56, 1.97 and 1.98, Applicants submit herewith copies of the references cited on the attached Forms PTO/SB/08A and PTO/SB/08B for consideration during prosecution of this application.

This Statement is filed solely for the purpose of complying with the pertinent rules of the Office and is not intended to be a substitute for an independent evaluation by the Examiner of the art cited or an independent search by the Examiner, and no representation of any nature is made or intended by the filing of this Statement.

Each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement.

Japanese Published Patent Applications JP 62110301 and JP 10135708 are not in the English language. The abstract of JP 62110301 was cited as a Category "Y" reference in an International Search Report with respect to claim 7 of PCT application PCT/US01/43571 (which is the PCT counterpart to the subject application). Claim 7 of application PCT/US01/43571 is the same as claim 7 of the subject application. The abstract of JP 10135708 was cited as a Category "Y" reference in the International Search Report with respect to claims 8 and 9 of PCT application PCT/US01/43571. Claims 8 and 9 of

application PCT/US01/43571 are the same as claims 8 and 9 of the subject application. A copy of the International Search Report is enclosed.

Respectfully submitted,

Robert P Lenart

Robert P. Lenart
Registration No. 30,654
Pietragallo, Bosick & Gordon
One Oxford Centre, 38th Floor
301 Grant Street
Pittsburgh, PA 15219
Telephone No.: (412) 263-4399
Facsimile No.: (412) 261-0915
Attorney for Applicants

Please type a plus sign (+) inside this box



Approved for use through 10/31/99. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE +

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/734,969
				Filing Date	12/12/00
				First Named Inventor	Yongfei Zhu
				Group Art Unit	2817
				Examiner Name	Stephen E. Jones
Sheet	1	of	1	Attorney Docket Number	283014-00025

U.S. PATENT DOCUMENTS						
Examiner Initials [*]	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		5,502,422		Newell et al.	03-26-1996	
		5,965,494		Terashima et al.	10-12-1999	

FOREIGN PATENT DOCUMENTS								
Examiner Initials [*]	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
		JP	62110301	A	Matsushita Electric Ind. Co.	05-21-1987		
		JP	10135708	A	Kyocera Corp.	05-22-1998		
		EP	0843374	A	Sharp Kabushiki Kaisha	05-20-1998		
		WO	00/35042	A	Paratek Microwave, Inc.	06-15-2000		

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

+ Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box ☒ Approved for use through 10/31/99. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/734,969
				Filing Date	12/12/00
				First Named Inventor	Yongfei Zhu
				Group Art Unit	2817
				Examiner Name	Stephen E. Jones
Sheet	1	of	1	Attorney Docket Number	283014-00025

Examiner Initials ²	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		<i>Patent Abstracts of Japan</i> , Vol. 011, No. 320 (E-550), October 17, 1987 & JP 62 110301 A (Matsushita Electric Ind. Co. Ltd.), May 21, 1987.	
		<i>Patent Abstracts of Japan</i> , Vol. 1998, No. 10, August 31, 1998 & JP 10 135708 A (Kyocera Corp.), May 22, 1998.	
		V. N. KEIS ET AL., "20 GHz Tunable Filter Based on Ferroelectric (Ba,Sr)TiO ₃ Film Varactors," <i>Electronics Letters, IEE</i> , Vol. 34, No. 11, May 28, 1998, pp. 1107-1109.	
		O. G. VENDIK ET AL., "Ferroelectric Tuning of Planar and Bulk Microwave Devices," <i>Journal of Superconductivity</i> , Vol. 12, No. 2, April 1999, pp. 325-338.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

+ Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.